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FILING DATE APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 07/25/2003 10/626,989 Chris A. Barone 6579-125 4156 **EXAMINER** 03/08/2006 7590 Richard R. Michaud HUSON, MONICA ANNE The Michaud- Duffy Group LLP **ART UNIT PAPER NUMBER** 306 Industrial Park Road Suite 206 1732 Middletown, CT 06457

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)
Office Action Summary		10/626,989	BARONE ET AL.
		Examiner	Art Unit
		Monica A. Huson	1732
Period fo	The MAILING DATE of this communication apports Reply	ears on the cover sheet with the c	orrespondence address
A SH WHIC - Exte after - If NC	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute.	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from	N. nely filed the mailing date of this communication.
Any	reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	date of this communication, even if timely filed	I, may reduce any
Status			
1)⊠ 2a)⊠ 3)□	 1) Responsive to communication(s) filed on <u>25 November 2005</u>. a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 		
Dispositi	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-25 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
A pplicati	ion Papers		
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 25 July 2003 is/are: a) [2 Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 2015.	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority ι	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
2) ☐ Notic 3) ☑ Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 061005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	•

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DETAILED ACTION

This office action is in response to the Amendment filed 25 November 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-8, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. et al. (U.S. Patent 5,079,839), in view of Brams et al. (U.S. Patent 5,788,995).

Regarding Claim 1, Conrad, Jr. et al., hereafter "Conrad, Jr.," show that it is known to carry out a method for producing a shaving cartridge (Abstract), comprising the steps of forming a base having features for attaching the shaving aid cartridge to a razor assembly (Column 2, lines 43-44); and forming a shaving body attached to the base during the forming of the shaving body (Column 2, lines 38-42). Conrad, Jr. does not show a specific insert molding process. Brams et al., hereafter "Brams," show that it is known to carry out a method including forming in a first mold an element having desired features, the first mold including a base portion and a common portion (Figure 1); engaging the common portion of the first mold with another desired element portion to collectively form a closed second mold, the common portion containing the previously-molded element (Figure 1); and forming in the second mold a desired element

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attached to the previously formed element (Figure 1). Brams and Conrad, Jr. are combinable because they are concerned with a similar technical field, namely, methods of molding composite articles. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brams' specific insert molding process to mold Conrad, Jr.'s article in order to most efficiently handle the two molding materials.

Regarding Claim 2, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, including a method wherein the base comprises a thermoplastic material (Column 2, lines 43-44), meeting applicant's claim.

Regarding Claim 3, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, including a method wherein the shaving aid body comprises an erodable material (Column 2, line 40), meeting applicant's claim.

Regarding Claim 5, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not specifically show using two molds. Brams shows that it is known to carry out a method including a method wherein the step of forming of the desired element comprises the step of injecting an appropriate material in a flowable form into the closed second mold (Figure 1). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brams' specific insert molding process to mold Conrad, Jr.'s article in order to most efficiently handle the two molding materials.

Regarding Claim 6, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claims 1 and 5 above, including a method wherein the formed base includes features for receiving the shaving aid material, and wherein when the shaving aid material solidifies, the

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features preventing separation of the shaving aid body and the formed base (Figures 5-6), meeting applicant's claim.

Regarding Claim 7, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 6 above, including a method wherein the features include protrusions (Figure 5-6), meeting applicant's claim.

Regarding Claim 8, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, including a method wherein the step of forming the base comprises the steps of mixing a thermoplastic material in a mixer at a first temperature and injecting a thermoplastic material into a first mold (Column 2, lines 43-44; It is noted that it is inherent that the molding material must be mixed at an appropriate temperature prior to the injection.), meeting applicant's claim.

Regarding Claim 19, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show specific configuration details of his molded article. However, to be entitled to weight in method claims, recited structural limitations must affect the method in a manipulative sense and not amount to mere claiming of a use of a particular structure. *Ex parte Pfeiffer* 135 USPQ 31. Therefore, it is being interpreted that it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use any particular structure during Conrad, Jr.'s molding method in order to form the desired article.

Regarding Claim 20, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 8 above, but he does not give specific temperatures for his molding operation. However, it is noted that it is well established that values are critical only when they involve

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difference in kind rather than in degree. *In re Touvay et al.* 121 USPQ 265. Therefore, it is being interpreted that depending on the specific molding materials, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use the claimed temperature during Conrad, Jr.'s molding process in order to avoid mishandling of the specific molding material.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. and Brams, in view of Yin et al. (U.S. Patent 5,711,076). Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a shaving aid body that comprises a soap material. Yin et al., hereafter "Yin," show that it is known to carry out a method for making a shaving aid cartridge wherein the shaving aid body comprises a soap material (Column 4, lines 49-56). Yin and Conrad, Jr. are combinable because they are concerned with a similar technical field, namely, methods of making shaving aids. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yin's soap material in Conrad, Jr.'s molding method in order to make a shaving aid that accomplishes two purposes (i.e. shaving and cleaning) at once.

Claims 9-11, 14, 17, and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. and Brams, in view of Vreeland et al. (U.S. Patent 5,345,680).

Regarding Claim 9, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claims 1 and 8 above, but he does not specifically show using a second mold for the injection of the shaving aid material. Vreeland et al., hereafter "Vreeland," show that it is known to carry out a method for making a shaving article comprising the steps of mixing shaving aid raw

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material in a mixer at a temperature range to provide a flowable shaving aid material form (Column 4, lines 1-3; It is noted that it is inherent that the molding material must be mixed at an appropriate temperature prior to the injection.); and injecting the shaving aid material in the flowable form into the second mold (Column 4, lines 3-5). Vreeland and Conrad, Jr. are combinable because they are concerned with a similar technical field, namely, methods of making shaving articles. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Vreeland's second mold during Conrad, Jr.'s process in order to increase the rate of production (i.e. while the shaving aid is being molded into the second mold, a base can be being molded in the first mold).

Regarding Claim 10, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 9 above, including a method further comprising the step of cooling the shaving aid material to maintain the flowable material within the temperature range (Column 5, lines 3-9, 39-43), meeting applicant's claim.

Regarding Claim 11, Conrad, Jr. shows that it is known to carry out a method for [producing a] shaving aid cartridge (Abstract) comprising the steps of injecting a thermoplastic material into a closed first mold to form a base (Column 2, lines 43-44); injecting a shaving aid material into the second mold to form a shaving aid body (Column 2, lines 38-42; Column 3, lines 38-42); and removing the shaving aid cartridge that includes the base coupled to the shaving aid body from the mold (Column 3, lines 38-42). Conrad, Jr. does not show using two molds for his sequential injection molding. Vreeland shows that it is known to carry out a method including using a first mold to form the base, the first mold including a base portion and a common portion (Column 3, lines 67-68; Column 4, line 1) and engaging the common portion

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of the first mold with a shaving aid body portion to form a closed second mold, wherein the base remains with the common portion and is disposed within the second mold (Column 4, lines 1-5; It is noted that the modifications needed to form the second mold are being considered the "shaving aid body portion" of the second mold.). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Vreeland's second mold during Conrad, Jr.'s process in order to increase the rate of production (i.e. while the shaving aid is being molded into the second mold, a base can be being molded in the first mold).

Regarding Claim 14, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 11 above, but he does not show using a common portion between two molds. Vreeland shows that it is known in the prior art to carry out a method wherein the common portion includes voids shaped to form features operable to attach the shaving aid cartridge to a razor assembly (Column 1, lines 16-22). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Vreeland's teaching of attaching features in Conrad, Jr.'s molding process in order to ensure proper adherence between the firstly-molded base and the secondly-molded erodable materal.

Regarding Claim 17, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 11 above, including a method wherein the shaving aid body comprises an erodable material (Column 2, line 40), meeting applicant's claim.

Regarding Claim 21, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 9 above, but he does not give specific temperatures for his molding operation. However, it is noted that it is well established that values are critical only when they involve difference in kind rather than in degree. *In re Touvay et al.* 121 USPQ 265. Therefore, it is

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being interpreted that depending on the specific molding materials, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use the claimed temperature during Conrad, Jr.'s molding process in order to avoid mishandling of the specific molding material.

Regarding Claim 22, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 9 above, but he does not show heating passages in a second mold. Brams shows that it is known to carry out a method further comprising the step of heating passages that distribute the flowable molding material to the closed second mold to maintain the flowable molding material within the temperature range (Column 2, lines 51-58). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brams' heating passages during Conrad, Jr.'s molding process in order to avoid mishandling of the specific molding material.

Regarding Claim 23, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 9 above, but he does not show cooling in the second mold. Brams shows that it is known to carry out a method further comprising the step of cooling at least a portion of the second molded section in the second mold that provides a contour to the second molded section (Column 3, lines 41-44). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brams' cooling elements during Conrad, Jr.'s molding process in order to avoid mishandling of the specific molding material.

Regarding Claim 24, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 11 above, but he does not show specific configuration details of his molded article. However, to be entitled to weight in method claims, recited structural limitations must

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affect the method in a manipulative sense and not amount to mere claiming of a use of a particular structure. *Ex parte Pfeiffer* 135 USPQ 31. Therefore, it is being interpreted that it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use any particular structure during Conrad, Jr.'s molding method in order to form the desired article.

Regarding Claim 25, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 24 above, but he does not show cooling in the first mold. Brams shows that it is known to carry out a method further comprising the step of cooling at least the first molded element (Column 3, lines 41-44). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brams' cooling elements during Conrad, Jr.'s molding process in order to avoid mishandling of the specific molding material.

Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. and Brams, in view of Vreeland, further in view of Brown.

Regarding Claim 12, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 11 above, but he does not show cooling a second mold. Brown shows that it is known to carry out a method of making a shaving article comprising the step of cooling at least a portion of a second mold (Column 3, lines 16-25; Column 8, lines 4-10). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brown's cooling step in Conrad, Jr.'s and Vreeland's molding process in order to expedite the time required before article ejection (and thus, expedite the entire molding cycle time).

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Regarding Claim 13, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claim 11 above, but he does not show cooling a second mold to a temperature below a solidification temperature of the shaving material. Brown shows that it is known to carry out a method of making a shaving article comprising the step of cooling at least a portion of a second mold (Column 3, lines 16-25; Column 8, lines 4-10; It is noted that if the mold was not cooled to a temperature below the solidification temperature of the shaving aid material, the shaving aid material would not solidify.). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Brown's cooling step in Conrad, Jr.'s and Vreeland's molding process in order to expedite the time required before article ejection (and thus, expedite the entire molding cycle time).

Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. and Brams, in view of Vreeland, further in view of Reischl (U.S. Patent 4,595,709).

Regarding Claim 15, Conard, Jr. shows the process as claimed as discussed in the rejection of Claims 11 and 14 above, but he does not specifically show using a screw type mixer. Reischl shows that it is known to carry out a process for molding thermoplastic articles wherein the material is processed into a flowable state using a screw type mixer (Column 3, lines 23-40). Reischl and Conrad, Jr. are combinable because they are concerned with a similar technical field, namely, methods of making plastic articles. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Reischl's screw type mixer during Conrad, Jr.'s and Vreeland's molding process in order to product articles having unexpectedly good mechanical properties.

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Regarding Claim 16, Conrad, Jr. shows the process as claimed as discussed in the rejection of Claims 11, 14, and 15 above, but he does not show using a cooled screw type mixer. Reischl shows that it is known to carry out a process wherein at least a portion of the screw type mixer is cooled during the processing of the material (Column 4, lines 7-10). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Reischl's cooled screw type mixer during Conrad, Jr.'s and Vreeland's molding process in order to ensure proper material processing.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad, Jr. and Brams, in view of Vreeland, further in view of Yin. Conrad, Jr. shows the process as claimed as discussed in the rejection of Claims 11 and 17 above, but he does not show a shaving aid body that comprises a soap material. Yin shows that it is known to carry out a method for making a shaving aid cartridge wherein the shaving aid body comprises a soap material (Column 4, lines 49-56). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yin's soap material in Conrad, Jr.'s and Vreeland's molding method in order to make a shaving aid that accomplishes two purposes (i.e. shaving and cleaning) at once.

Response to Arguments

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A. Huson whose telephone number is 571-272-1198. The examiner can normally be reached on Monday-Friday 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Monica A Huson March 6, 2006

SUPERVISORY PATENT EXAMINER